

W/A

1623

APR 11 2000

PAGE: 1

RAW SEQUENCE LISTING

DATE: 07/14/1999

APR 11 2000

PATENT APPLICATION US/09/272,809

TIME: 11:07:08

Input Set: I272809.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

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1 <110> APPLICANT: Lagarias, John C.
2 <120> TITLE OF INVENTION: Phytofluors as fluorescent labels
3 <130> FILE REFERENCE: 2500.118US0
4 <140> CURRENT APPLICATION NUMBER: US/09/272,809
5 <141> CURRENT FILING DATE: 1998-03-19
6 <160> NUMBER OF SEQ ID NOS: 24
7 <170> SOFTWARE: PatentIn Ver. 2.0
8 <210> SEQ ID NO 1
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11 <213> ORGANISM: Unknown
12 <220> FEATURE:
13 <223> OTHER INFORMATION: Description of Unknown Organism: Locus SLR0473 =
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20 Val Val Leu Gln Glu Pro Asp Leu Thr Ile Ser Gln Ile Ser Ala Asn
21 35 40 45
22 Cys Thr Gly Ile Leu Gly Arg Ser Pro Glu Asp Leu Leu Gly Arg Thr
23 50 55 60
24 Leu Gly Glu Val Phe Asp Ser Phe Gln Ile Asp Pro Ile Gln Ser Arg
25 65 70 75 80
26 Leu Thr Ala Gly Gln Ile Ser Ser Leu Asn Pro Ser Lys Leu Trp Ala
27 85 90 95
28 Arg Val Met Gly Asp Asp Phe Val Ile Phe Asp Gly Val Phe His Arg
29 100 105 110
30 Asn Ser Asp Gly Leu Leu Val Cys Glu Leu Glu Pro Ala Tyr Thr Ser
31 115 120 125
32 Asp Asn Leu Pro Phe Leu Gly Phe Tyr His Met Ala Asn Ala Ala Leu
33 130 135 140
34 Asn Arg Leu Arg Gln Gln Ala Asn Leu Arg Asp Phe Tyr Asp Val Ile
35 145 150 155 160
36 Val Glu Glu Val Arg Arg Met Thr Gly Phe Asp Arg Val Met Leu Tyr
37 165 170 175
38 Arg Phe Asp Glu Asn Asn His Gly Asp Val Ile Ala Glu Asp Lys Arg
39 180 185 190
40 Asp Asp Met Glu Pro Tyr Leu Gly Leu His Tyr Pro Glu Ser Asp Ile
41 195 200 205
42 Pro Gln Pro Ala Arg Arg Leu Phe Ile His Asn Pro Ile Arg Val Ile
43 210 215 220
44 Pro Asp Val Tyr Gly Val Ala Val Pro Leu Thr Pro Ala Val Asn Pro

PAGE: 2

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/272,809DATE: 07/14/1999
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 46 Ser Thr Asn Arg Ala Val Asp Leu Thr Glu Ser Ile Leu Arg Ser Ala
 47 245 250 255
 48 Tyr His Cys His Leu Thr Tyr Leu Lys Asn Met Gly Val Gly Ala Ser
 49 260 265 270
 50 Leu Thr Ile Ser Leu Ile Lys Asp Gly His Leu Trp Gly Leu Ile Ala
 51 275 280 285
 52 Cys His His Gln Thr Pro Lys Val Ile Pro Phe Glu Leu Arg Lys Ala
 53 290 295 300
 54 Cys Glu Phe Phe Gly Arg Val Val Phe Ser Asn Ile Ser Ala Gln Glu
 55 305 310 315 320
 56 Asp Thr Glu Thr Phe Asp Tyr Arg Val Gln Leu Ala Glu His Glu Ala
 57 325 330 335
 58 Val Leu Leu Asp Lys Met Thr Thr Ala Ala Asp Phe Val Glu Gly Leu
 59 340 345 350
 60 Thr Asn His Pro Asp Arg Leu Leu Gly Leu Thr Gly Ser Gln Gly Ala
 61 355 360 365
 62 Ala Ile Cys Phe Gly Glu Lys Leu Ile Leu Val Gly Glu Thr Pro Asp
 63 370 375 380
 64 Glu Lys Ala Val Gln Tyr Leu Leu Gln Trp Leu Glu Asn Arg Glu Val
 65 385 390 395 400
 66 Gln Asp Val Phe Phe Thr Ser Ser Leu Ser Gln Ile Tyr Pro Asp Ala
 67 405 410 415
 68 Val Asn Phe Lys Ser Val Ala Ser Gly Leu Leu Ala Ile Pro Ile Ala
 69 420 425 430
 70 Arg His Asn Phe Leu Leu Trp Phe Arg Pro Glu Val Leu Gln Thr Val
 71 435 440 445
 72 Asn Trp Gly Gly Asp Pro Asn His Ala Tyr Glu Ala Thr Gln Glu Asp
 73 450 455 460
 74 Gly Lys Ile Glu Leu His Pro Arg Gln Ser Phe Asp Leu Trp Lys Glu
 75 465 470 475 480
 76 Ile Val Arg Leu Gln Ser Leu Pro Trp Gln Ser Val Glu Ile Gln Ser
 77 485 490 495
 78 Ala Leu Ala Leu Lys Lys Ala Ile Val Asn Leu Ile Leu Arg Gln Ala
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 80 Glu Glu Leu Ala Gln Leu Ala Arg Asn Leu Glu Arg Ser Asn Ala Asp
 81 515 520 525
 82 Leu Lys Lys Phe Ala Tyr Ile Ala Ser His Asp Leu Gln Glu Pro Leu
 83 530 535 540
 84 Asn Gln Val Ser Asn Tyr Val Gln Leu Leu Glu Met Arg Tyr Ser Glu
 85 545 550 555 560
 86 Ala Leu Asp Glu Asp Ala Lys Asp Phe Ile Asp Phe Ala Val Thr Gly
 87 565 570 575
 88 Val Ser Leu Met Gln Thr Leu Ile Asp Asp Ile Leu Thr Tyr Ala Lys
 89 580 585 590
 90 Val Asp Thr Gln Tyr Ala Gln Leu Thr Phe Thr Asp Val Gln Glu Val
 91 595 600 605
 92 Val Asp Lys Ala Leu Ala Asn Leu Lys Gln Arg Ile Glu Glu Ser Gly
 93 610 615 620
 94 Ala Glu Ile Glu Val Gly Ser Met Pro Ala Val Met Ala Asp Gln Ile

PAGE: 3

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 98 Ala Gly Asp Lys Ser Pro Lys Ile Lys Ile Trp Gly Asp Arg Gln Glu
 99 660 665 670
 100 Asp Ala Trp Val Phe Ala Val Gln Asp Asn Gly Ile Gly Ile Asp Pro
 101 675 680 685
 102 Gln Phe Phe Glu Arg Ile Phe Val Ile Phe Gln Arg Leu His Thr Arg
 103 690 695 700
 104 Asp Glu Tyr Lys Gly Thr Gly Met Gly Leu Ala Ile Cys Lys Lys Ile
 105 705 710 715 720
 106 Ile Glu Gly His Gln Gly Gln Ile Trp Leu Glu Ser Asn Pro Gly Glu
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 119 20 25 30
 120 Glu Glu Ala Arg Ile Phe Leu Gly Val Asp Arg Val Lys Ile Tyr Lys
 121 35 40 45
 122 Phe Ala Ser Asp Gly Ser Gly Glu Val Leu Ala Glu Ala Val Asn Arg
 123 50 55 60
 124 Ala Ala Leu Pro Ser Leu Leu Gly Leu His Phe Pro Val Glu Asp Ile
 125 65 70 75 80
 126 Pro Pro Gln Ala Arg Glu Glu Leu Gly Asn Gln Arg Lys Met Ile Ala
 127 85 90 95
 128 Val Asp Val Ala His Arg Arg Lys Ser His Glu Leu Ser Gly Arg
 129 100 105 110
 130 Ile Ser Pro Thr Glu His Ser Asn Gly His Tyr Thr Thr Val Asp Ser
 131 115 120 125
 132 Cys His Ile Gln Tyr Leu Leu Ala Met Gly Val Leu Ser Ser Leu Thr
 133 130 135 140
 134 Val Pro Val Met Gln Asp Gln Gln Leu Trp Gly Ile Met Ala Val His
 135 145 150 155 160
 136 His Ser Lys Pro Arg Arg Phe Thr Glu Gln Glu Trp Glu Thr Met Ala
 137 165 170 175
 138 Leu Leu Ser Lys Glu Val Ser Leu Ala Ile Thr Gln Ser Gln Leu Ser
 139 180 185 190
 140 Arg Gln Val His Gln Gln Val Gln Glu Ala Leu Val Gln Arg Leu
 141 195 200 205
 142 Glu Thr Thr Val Ala Gln Tyr Gly Asp Arg Pro Glu Thr Trp Gln Tyr
 143 210 215 220
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PAGE: 4

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/272,809DATE: 07/14/1999
TIME: 11:07:08

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 147 Tyr Ile Ala Pro Asp Leu Thr Gly Ser Val Ala Gln His Tyr Gln Trp
 148 245 250 255
 149 Asn Leu Arg Phe Asp Trp Gly Asn Trp Leu Glu Thr Ser Leu Trp Gln
 150 260 265 270
 151 Glu Leu Met Arg Gly Gln Pro Ser Ala Ala Met Glu Pro Met Ala Ala
 152 275 280 285
 153 Val Gln Ser Thr Trp Glu Lys Pro Arg Pro Phe Thr Ser Val Ala Pro
 154 290 295 300
 155 Leu Pro Pro Thr Asn Cys Val Pro His Gly Tyr Thr Leu Gly Glu Leu
 156 305 310 315 320
 157 Glu Gln Arg Ser Asp Trp Ile Ala Pro Pro Glu Ser Leu Ser Ala Glu
 158 325 330 335
 159 Asn Phe Gln Ser Phe Leu Ile Val Pro Leu Ala Ala Asp Gln Gln Trp
 160 340 345 350
 161 Val Gly Ser Leu Ile Leu Leu Arg Lys Glu Lys Ser Leu Val Lys His
 162 355 360 365
 163 Trp Ala Gly Lys Arg Gly Ile Asp Arg Arg Asn Ile Leu Pro Arg Leu
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 165 Ser Phe Glu Ala Trp Glu Glu Thr Gln Lys Leu Val Pro Thr Trp Asn
 166 385 390 395 400
 167 Arg Ser Glu Arg Lys Leu Ala Gln Val Ala Ser Thr Gln Leu Tyr Met
 168 405 410 415
 169 Ala Ile Thr Gln Gln Phe Val Thr Arg Leu Ile Thr Gln Gln Thr Ala
 170 420 425 430
 171 Tyr Asp Pro Leu Thr Gln Leu Pro Asn Trp Ile Ile Phe Asn Arg Gln
 172 435 440 445
 173 Leu Thr Leu Ala Leu Leu Asp Ala Leu Tyr Glu Gly Lys Met Val Gly
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 175 Val Leu Val Ile Ala Met Asp Arg Phe Lys Arg Ile Asn Glu Ser Phe
 176 465 470 475 480
 177 Gly His Lys Thr Gly Asp Gly Leu Leu Gln Glu Val Ala Asp Arg Leu
 178 485 490 495
 179 Asn Gln Lys Leu Ser Pro Leu Ala Ala Tyr Ser Pro Leu Leu Ser Arg
 180 500 505 510
 181 Trp His Gly Asp Gly Phe Thr Ile Leu Leu Thr Gln Ile Ser Asp Asn
 182 515 520 525
 183 Gln Glu Met Ile Pro Leu Cys Glu Arg Leu Leu Ser Thr Phe Gln Glu
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 187 Ile Ser Thr Ala Pro Tyr Asp Gly Glu Thr Ala Glu Ser Leu Leu Lys
 188 565 570 575
 189 Phe Ala Glu Ile Ala Leu Thr Arg Ala Lys Cys Gln Gly Lys Asn Thr
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 193 Thr Leu Glu Ser Asp Leu Arg Gln Ala Leu Thr Asn Gln Glu Phe Val
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PAGE: 5

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197 Val Glu Ala Leu Val Arg Trp Gln His Pro Arg Leu Gly Gln Val Ala
198 645 650 655
199 Pro Asp Val Phe Ile Pro Leu Ala Glu Glu Leu Gly Leu Ile Asn His
200 660 665 670
201 Leu Gly Gln Trp Val Leu Glu Thr Ala Cys Ala Thr His Gln His Phe
202 675 680 685
203 Phe Arg Glu Thr Gly Arg Arg Leu Arg Met Ala Val Asn Ile Ser Ala
204 690 695 700
205 Arg Gln Phe Gln Asp Glu Lys Trp Leu Asn Ser Val Leu Glu Cys Leu
206 705 710 715 720
207 Lys Arg Thr Gly Met Pro Pro Glu Asp Leu Glu Leu Glu Ile Thr Glu
208 725 730 735
209 Ser Leu Met Met Glu Asp Ile Lys Gly Thr Val Val Leu Leu His Arg
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220 820 825 830
221 Lys Met Gly Cys His Leu Gly Gln Gly Tyr Phe Leu Thr Arg Pro Leu
222 835 840 845
223 Pro Ala Glu Ala Met Met Thr Tyr Leu Tyr Tyr Pro Gln Ile Leu Asp
224 850 855 860
225 Phe Gly Pro Thr Pro Pro Leu Pro Lys Val Ala Leu Pro Glu Thr Glu
226 865 870 875 880
227 Thr Glu Ala Gly Gln Gly Asn Val Gly Asp Arg Pro Leu Pro Asn Ser
228 885 890 895
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231 Leu Lys Glu Arg Leu Gln Gln Arg Asn Val Lys Glu Lys Leu Val Leu
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PAGE: 6

VERIFICATION SUMMARY
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Original Text
